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AWS 95: A/UX Disk Defragmentation (7/93)

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TOPIC -----

I just purchased an Apple Workgroup Server (AWS) 95 for file services. I regularly defragmented the hard drive on my AppleShare 3.0 server and it showed a noticeable speed increase. Will doing this help the AWS 95 UNIX partition?

- 1) Is it necessary to defragment the UNIX partition of the hard drive of the AWS 95, and will it help keep performance at its maximum?
- 2) What programs are available to do this on a UNIX partition?

DISCUSSION -----

As with most file systems it may become necessary to defragment a UNIX based file system from time to time. The UNIX based utility program "fsck" will report the percentage of fragmentation on a per file system basis. You can use the command `fsck /dev/rdisk/cx0xdxsx` replacing the x's with the appropriate information. For example:

```
macamy.support.apple.com.root # fsck /dev/rdisk/c300d0s0
** /dev/rdisk/c300d0s0
** Last Mounted on /
** Root file system
** Phase 1 - Check Blocks and Sizes
** Phase 2 - Check Pathnames
** Phase 3 - Check Connectivity
** Phase 4 - Check Reference Counts
** Phase 5 - Check Cyl groups
8056 files, 97206 used, 839119 free (1751 frags, 104671 blocks, 0.2%
fragmentation)
```

The only way to defragment a file system is to use a backup utility such as the UNIX utilities `dump`, `cpio`, `tar`, or the Macintosh OS based `Retrospect` (version 2.0ai). There is a small section on this topic included in the AWS 95 "Server Administration with A/UX 3.0.1" manual pages 230-231. Copyright 1993, Apple Computer, Inc.

Keywords: <None>

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